A Xenolite of the Eclogite With Diamonds

SOV/20-126-3-50/69

great depths - though from smaller depths than the garnet peridotites. The taking hold of xenolites of diamond-containing eclogites does by no means justify the assertion that all diamonds in kimberlites are xenogenous. The diamond crystallization in the kimberlite magma, or in any case the genetic relation to this magma, are now established (Ref 1). There are 3 figures, 2 tables, and 7 references, 3 of which are Soviet.

ASSOCIATION: Amakinskaya ekspeditsiya Ministerstva geologii i okhrany nedr SSSR (Amakinskaya Expedition of the Ministry of Geology and for the Protection of Mineral Resources USSR)

SUBMITTED: March 26, 1959

Card 3/3

KALYUZHNYY, Vladimir Antonovich; SOBOLEV, V.S., akademik, otv.red.; CHEKHOVICH, N.Ya., red.izd-va; LISOVETS, O.M. [Lysovets', O.M.], tekhn.red.

[Methods for studying multiple inclusions in minerals] Metody vyvchennia bahatofazovykh vkliuchen' u mineralakh. Kyiv, Vyd-vo Akad.nauk URSR, 1960. 167 p. (MIRA 13:8)

PHASE I BOOK EXPLOITATION SOV/5325

International Geological Congress. 21st, Copenhagen, 1960.

- Granito-gneysy (Gneissose Granites) Kiyev, Izd-vo AN UKrSSR, 1960. 174 p. 1,000 copies printed. (Series: Doklady sovetskikh geologov, problema 14) Added t. p. in English.
- Sponsoring Agency: Akademiya nauk Soyuza SSR. Akademiya nauk Ukrainskoy SSR. Ministerstvo geologii i okhrany nedr SSSR. Natsional'nyy komitet geologov Sovetskogo Soyuza.
- Editorial Board: Resp. Eds.: N.P. Semenenko, D.S. Korzhinskiy, and G.D. Afanas' yev; Ed. of Publishing House: V.N. Zaviryukhina; Tech. Ed.: A.A. Matveychuk.
- PURPOSE: This book is intended for geologists and petrographers, as well as students of geology at schools of higher education.
- COVERAGE: The book contains 13 articles representing the reports given by Soviet scientists at the 21st Session of the International Geological Congress. The individual reports deal with theoretical problems of metamorphism and interaction of magmatic masses, formation of granites, magmatic replacement in subeffusive facies, formation of scarns, and paragenetic analysis. Representatives Card 1/5

Gneissose Granites	SOV / · · · · ·
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Siroshtan, R.I. Metamorphism of Alumosilicate Rocks of Formations in the Ukraine	Ferrosiliceous
Zharikov, V.A. Magmatic Replacement of Carbonate Forms	·
Polovko, N.I. Principles of the Classification and Gra	
Rock Metamorphism in the Ukraine	68
Card 3/5	

ZOLOTUKHIN, Valeriy Vasil'yevich; SOBOLEV, V.S. [Soboliev, V.S.], akademik, otv.red.; CHEKHOVICH, N.Ya. [Chekhovych, N.IA.], red.izd-va; YEFIMOVA, M.I. [IEfimova, M.I.], tekhn.red.

[Geological and petrographic studies of Chernaya Gora and adjacent regions in Transcarpathia] Geologo-petrografichni doslidzhennia chornoi gory ta pryleglykh raioniv Zakarpattia. Kyiv, Vyd-vo Akad. (MIRA 13:5) nauk URSR, 1960. 175 p. (Transcarpathia--Petrology)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651830002-5"

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USENKO, Ivan Stepenovich; SOBOLEV, V.S., akademik, otv.red.; OVCHAROVA, X.G., red.izd-va; KADASHEVICH, O.A., tekhn.red.

[Basic and ultrabasic rocks of the western Azov Sea region]
Osnovnye i ul'traosnovnye porody Zapadnogo Priazov'ia. Kiev.
Izd-vo Akad.nauk USSR, 1960. 177 p.

(MIRA 14:3)

(Azov Sea region--Rocks, Igneous)

SOBOLEV, V.S.

Conditions governing the formation of diamond deposits. Geol. i geofiz. no.1:7-22 160. (MIRA 13:9)

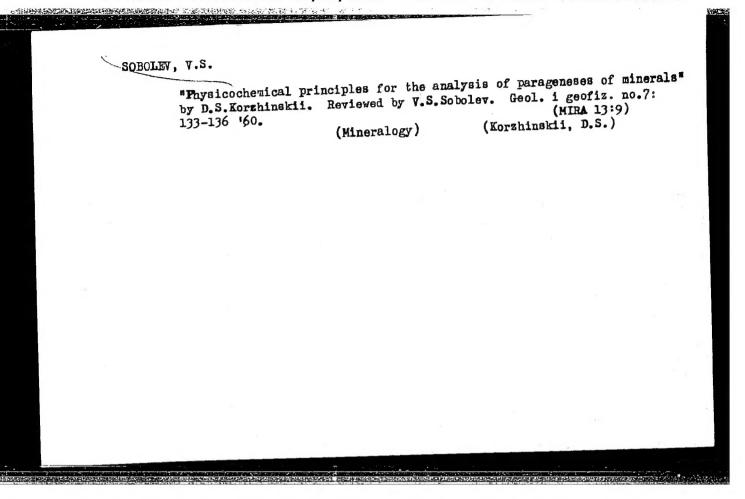
1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.
(Diamonds)

BOBRIYEVICH, A.P.; SMIRNOV, G.I.; SOBOLEV, V.S.

Mineralogy of xenoliths of grossularite-pyroxene-disthene rocks in kimberlites of Yakutia. Geol. i geofiz. no.3:18-24 160.

(MIRA 13:9)

l. Amakinskaya ekspeditsiya Yakutskogo geologicheskogo upravleniya i Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. (Yakutia---Xenoliths) (Yakutia---Kimberlite)



SOBOLEV, V.S.

Formation of anthophyllite. Min.sbor. no.14:80-85 '60.
(MIRA 15:2)

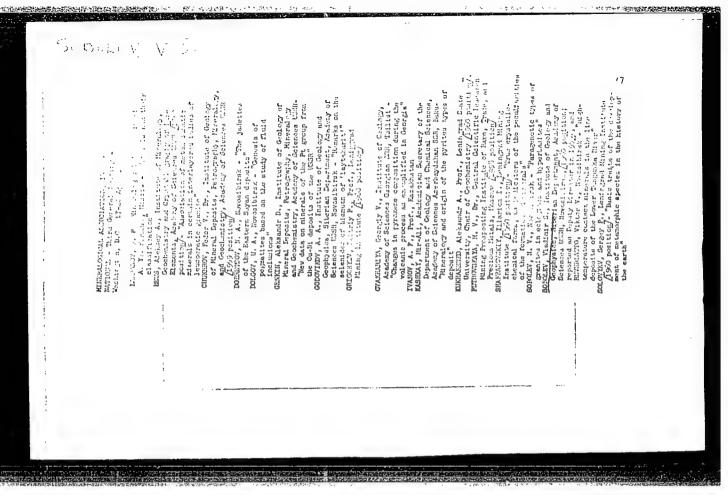
1. Gosudarstvennyy universitet imeni Ivana Franko, L'vov.
(Anthophyllite)

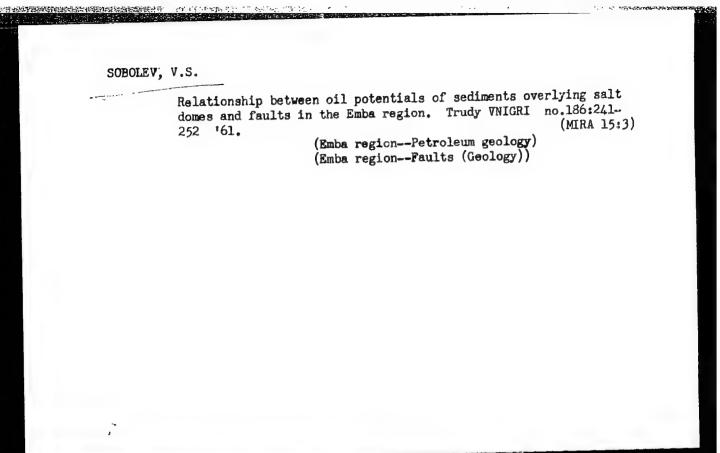
SOBOLEV, V.S.

Petroleum occurrences in the salts of the Chelkar dome in the Petroleum occurrences in the salts of the one that dome in the northern part of the Caspian Lowland. Trudy VNIGRI no.163:256- (MIRA 14:6) 269 160.

(Caspian Lowland-Petroleum geology)

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BERNADSKAYA, Lyudmila Gonrikhovna; SOBOLEV, V.S., akademik, otv.red.; CHEKHOVICH, N.Ya., red.izd va; RAKHLINA, N.P., tekhn.red.

[Volcanic rocks in the Dnieper-Donets Lowland] Vulkanicheskie porody Dneprovsko-Donetskoi vpadiny. Kiev, Izd-vo Akad.nauk Ukrainskoi SSR, 1961. 189 p. (Akademiia nauk URSR, Kiev, Institut geologichnykh nauk. Trudy no.12). (MIRA 14:12) (Dnieper-Donets Lowland-Rocks, Igneous)

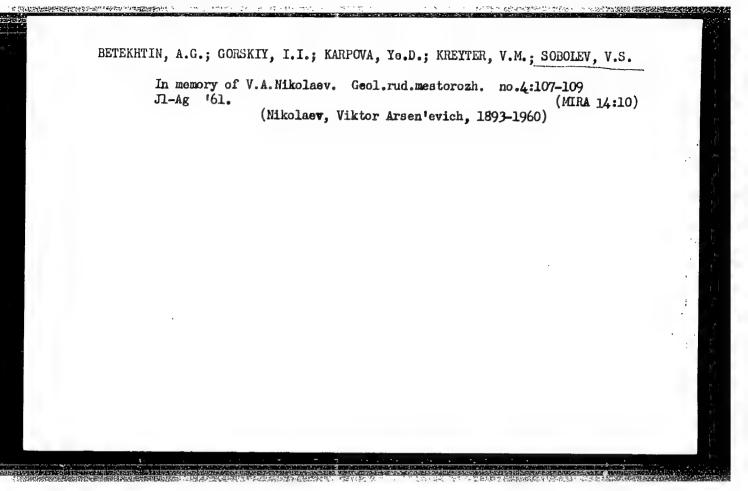
ZAVARITSKIY, Aleksandr Nikolayevich; SOBOLEV, Vladimir Stepanovich; SMIRNO-VA, Z.A., red. izd-va; GUROVA, O.A., tekhn. red.

[Physicochemical fundamentals of the petrography of igneous rocks] Fiziko-khimicheskie osnovy petrografii izverzhennykh gornykh porod. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1961. 382 p. (MIRA 14:11)

(Rocks, Igneous)

GODOVIKOV, A.A.; DISTANOV, E.G.; KOSYGIN, Yu.A.; KUZNETSOV, V.A.; SAKS, V.N.; SOBOLEV, V.S.; SOKOLOV, B.S.; TROFIMUK, A.A.; SHAKHOV, F.N.

In memory of Oleg Dmitrievich Levitskii. Geol. i geofiz. no.3:116-117 '61. (MIRA 14:5) (Levitskii, Oleg Dmitrievich, 1909-1961)



 KAYARINOV, V.P.; KAS'YANOV, M.V.; KOSYGIN, Yu.A.; POSPELOV, G.L.; S.AS, Y.N.; SOBOLEV, V.S.; SOKOLOV, B.S.; FOTIADI, E.E.; YANSHIN, A.L.

Academician Andrei Alekseevich Trofimuk; on his 50th birthday.

Geol. i geofiz. no.9:124-126 '61. (MIRA 14:11)

(Trofimuk, Andrei Alekseevich, 1911-)

ABDULLAYEV, Kh.M.; ALYAVDIN, V.F.; AMIRASLANOV, A.A.; ANIKEYEV, N.P.;
ARAPOV, Yu.A.; BARSANOV, G.P.; BELYAYEVSKIY, N.A.; BOKIY, G.P.;
BORODAYEVSKAYA, M.B.; GOVOROV, I.N.; GODLEVSKIY, M.N.; SHCHEGLOV, A.D.;
SHAKHOV, F.N.; SHILO, N.A.; YARMOLYUK, V.A.; DRABKIN, I.Ye.;
YEROFEYEV, B.N.; YERSHOV, A.D.; IVANKIN, P.F.; ITSIKSON, M.I.;
KARPOVA, Ye.D.; KASHIN, S.A.; KASHKAY, M.A.; KORZHINSKIY, D.S.;
KOSOV, B.M.; KOTLYAR, V.N., KREYTER, V.M.; KUZNETSOV, V.A.; LUGOV,
S.F.; MAGAK'YAN, I.G.; MATERIKOV, M.P.; OHI NTSOV, M.M.; PAVLOV, Ye.S.;
SATPAYEV, K.I.; SMIRNOV, V.I.; SOBOLEV, V.S.; SOKOLOV, G.A.; STRAKHOV,
N.M.; TATARINOV, I.M.; KHRUSHCHOV, N.A.; TSAREGRADSKIY, V.A.;
CHUKHROV, F.V.

In memory of Oleg Dmitrievich Levitskii; obiturary. Sov.geol. 4 ho.5:156-158 My 161. (MIRA 14:6) (Levitskii, Oleg Dmitrievich, 1909-1961)

SOBOLEV, V.S.

Volcanism of the Siberian Platform and some general geological problems. Geol. i geofiz. no.7:8-15 62. (MIRA 16:7)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Siberian Platform--Geology)

SOBOLEV, V.S.; REVERDATTO, V.V.

High-temperature mineral association at contacts of a differentiated trap intrusion on the Lower Tunguska River. Geol.i geofic. no.5:137-138 '62. (MIRA 15:8)

(Lower Tunguska Valley---Minerals)

SOBOLEV, V.S.; ZOLOTUKHIN, V.V.; DOBRETSOV, N.L.

V.N.Lodochnikov's works on Siberian petrography; on the 75th anniversary of his birth. Geol.i geofiz. no.5:138-139 '62. (MIRA 15:8)

(Lodochnikov, Vladimir Nikitich, 1887-1943) (Siberia--Petrology)

SOBOLEV, V.S.; GODOVIKOV, A.A.

Present-day problems of experimental mineralogy and petrography. Geol. i geofiz. no.10:93-103 '62. (MIRA 15:12)

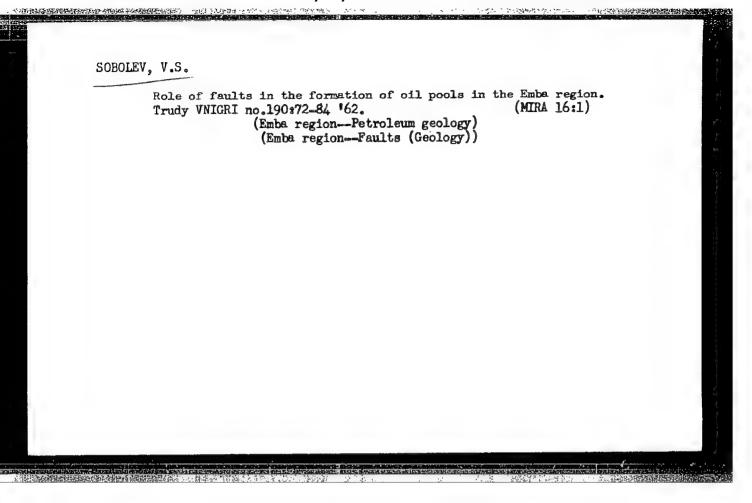
1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Petrology)

Physicochemical studies of magma and processes associated with it carried out in the U.S.S.R. during 1957-1959. Trudy Lab.vulk. (MIRA 15:4)

no.21:83-99 '62.

(Magma)



SOROLEV, V.S.

Field method of studying flysh formations. Trudy VNIGRI
no.190:252-258 '62. (MIRA 16:1)

(Balkan Peninsula-Flysh)

BELOV, Ivan Vasil'yevich; SOBOLEV, V.S., akademik, otv. red.;
SHLEPOV, V.K., red. izd-va; GUS'KOVA, O.M., tekhn. red.;
MAKAGONCVA, I.A., tekhn. red.

[Trachybasalt formation in the Lake Baikal region] Trakhibazal'tovaia formatsiia Pribaikal'ia. Moskva, Izd-vo Akad.
nauk SSSR, 1963. 371 p.
(MIRA 16:7)
(Baikal Lake region--Trachybasalt)

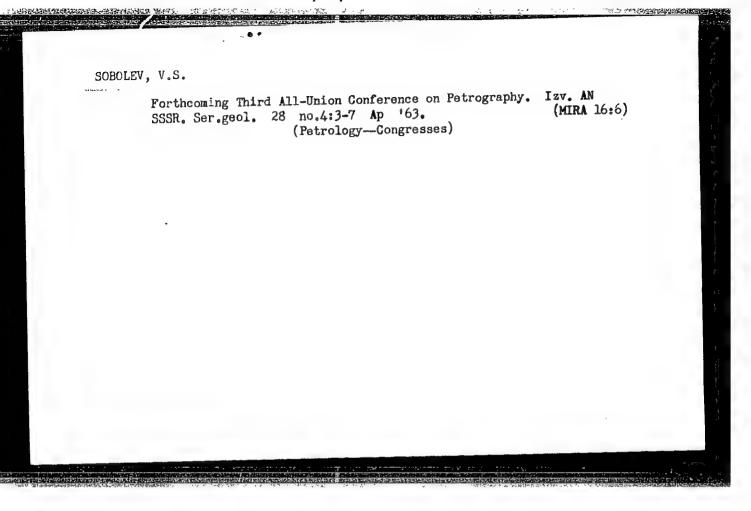
SOBOLEV, V.S., akademik, red.; SHATALOV, G.Y.[translator];
STARIKOVA, L.E., red.; GRIBOVA, M.P., tekim.red.

[Problems of theoretical and experimental petrology] Voprosy teoreticheskoi i eksperimental noi petrologii; sbornik statei. Moskva, Izd-vo inostr. lit-ry, 1963. 530 p. Translated from the English. (MIRA 16:12)

(Petrology)

VOLOKHOV, I.M.; DOVGAL', V.N.; KOSYGIN, Y11.A.; KUZNETSOV, V.A.; LUCHITSKIY, I.V.; POSPELOV, G.L.; POLYAKOV, G.V.; PINUS, G.V.; SOBOLEV, V.S.; TROFIMUK, A.A.; SHAKHOV, F.N.

Professor IUrii Alekseevich Kuznetsov, Corresponding Member of the Academy of Sciences of the U.S.S.R.; on his 60th birthday. Geol. i geofiz. no.4:135-140 '63. (MIRA 16:10)



SOBOLEV, V.S., akademik; BAZAROVA, T.Yu.

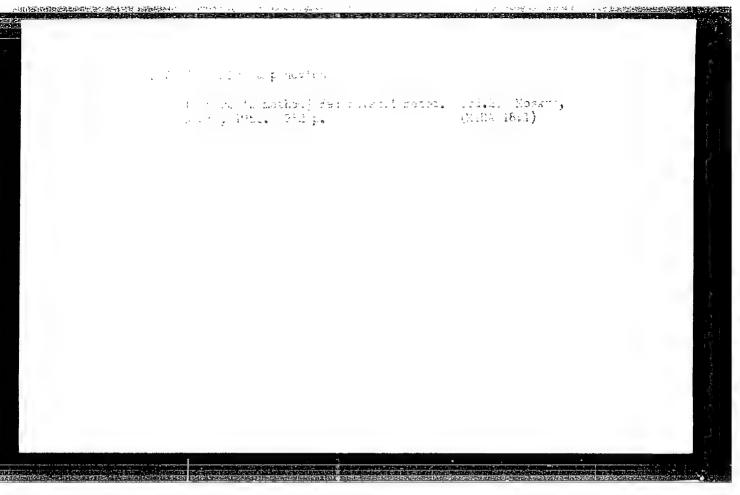
Crystallization temperature of disthene in pegmatites.
Dokl. AN SSSR 153 no.4:920-922 D '63. (MIRA 17:1)

l. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

ZOLOTUKHIN, Valoriy Vacil'yevich, SOLOLEV, V.S., akademuk, etc.
red.

[Basic cheracteristics of protectonics and the problems
of ore-bearing trap intrusions as revealed by a study of
the Noril'sk deposit] Osnovnye zakonomernosti prototektoniki i voprosy formirovanila rudonosnykh trappcvykh intruzii (na primere Noril'skoi). Moskva, Nauka, 1964.
175 p.

(MIRA 17812)



"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830002-5

S/0288/64/000/001/0034/0042

AUTHOR: Sobolev, V. S.

ACCESSION NR: AP4040013

TITLE: Contactless measurement of the resistivity of semiconductor materials by an eddy-current method

SOURCE: AN SSSR. Sib. otd. Izv. Seriya tekhnicheskikh nauk, no. 1, 1964, 34-42

TOPIC TAGS: semiconductor, semiconductor resistivity, semiconductor resistivity measurement

ABSTRACT: Theoretical principles and the practice of measuring low-resistivity (under 50 ohm-cm) semiconductor materials by an eddy-current method are considered. Formulas describing the insertion impedance of a lay-on coil, (sensor) with a semiconductor material introduced into its field are developed; frequencies under 200 or 100 mc are recommended for measurement. Design features of the sensors are briefly discussed. A 40-mc instrument developed by

Card 1/2

ACCESSION NR: AP4040013

the author compares the voltage of the sensor with that of a compensating circuit; two sensors, 3- and 6-mm in diameter, cover a resistivity range of 0.005-20 ohm-cm; the error is claimed to be under $\pm 3\%$. Orig. art. has: 3 figures,

ASSOCIATION: Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR, Novosibirsk (Institute of Automation and Electrometry, Siberian Branch, AN SSSR)

SUBMITTED: 20Nov63

DATE ACQ: 18Jun64

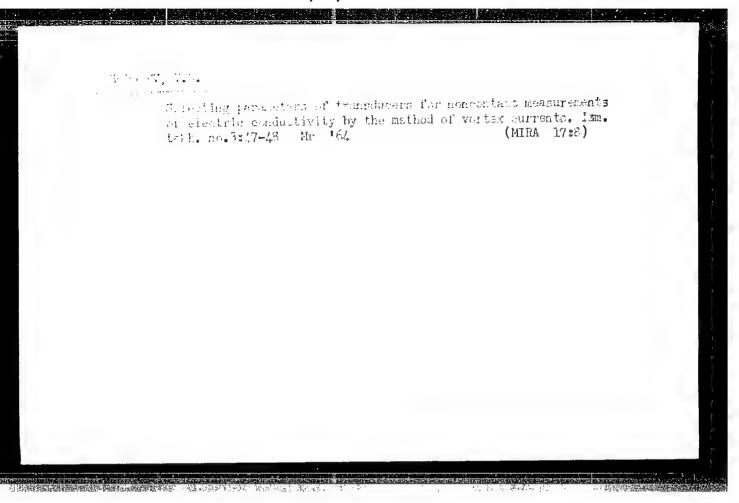
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NO REF SOV: 010

OTHER: 005

Card | 2/2



SOBOLEV, V.S.; BAKUMENKO, I.T.

Temperature of crystallization of transparent albite from Strzegom in Lower Silesia. Bul geolog PAN 11 no.2:93-95 164.

1. Institute of Geology and Geophysics of the Siterian Branch of the Academy of Sciences of the U.S.S.R. Presented by K. Smulikowski.

SCBOLEV, V.S., akademik; KHLESTOV, V.V.; KEPEZHINSKAS, K.B.

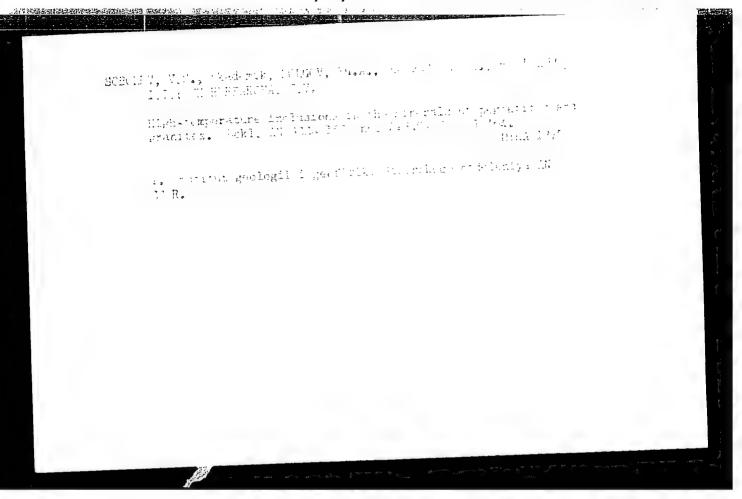
Use of the quartz arrangement for evaluating the temperatures of mineral formation. Dokl. AN SSSR 154 no.6:1355-1358 F '64. (MIRA 17:2)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

SOBCIEV, V.S., akademik

Melting incongruence of minerals under the conditions of pressure variation. Dokl. AM SCAN 156 no. 2:341-344 My '64. (MIRA 17:7)

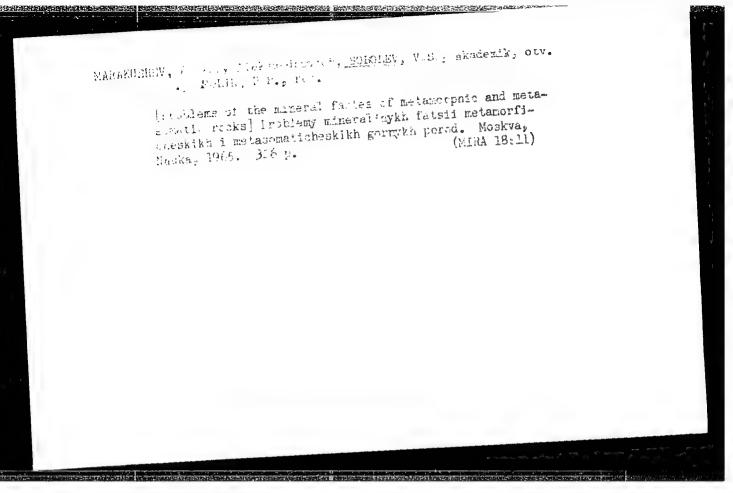
1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.



Zenoliths in the kimberlites of northern Takutia and some problems of the earth's manufactures. Taki. an SSSR 158 no.l:108-111 5-0 '64. (MIRA 17:8)

KEPEZHINSKAS, Kazimir Bernardovich; SOBOLEV, V.S., akademik, otv.

[Statistical analysis of chlorites and their paragenetic types] Statisticheskii analiz khloritov i ikh parageneticheskie tipy. Moskva, Nauka, 1965. 134 p, (MIRA 18:8)



SCHOLAY. Velocity of the superposed pickup method for testing with eddy currents. Pelaliteck prin 10-250-15 [65].

1. The that automatiki i elaktromatrii Sibirakogo otdalaniya AN SESR.

EWT(d)/EEC(k)-2/EWP(1)L 9452-66 UR/0115/65/000/001/0057/0059 ACC NR: AP6001928 SOURCE CODE: Sobolev, V. S. ORG: none TITLE: Conference on automatic control and electrical measurement methods SOURCE: Izmeritel'naya tekhnika, no. 1, 1965, 57-59 TOPIC TAGS: data processing, data processing equipment, scientific conference, metrology, automatic control, electric measurement, electric measuring instrument, electronic measurement ABSTRACT: The Sixth All-Union Conference on Automatic Control and Methods of Electrical measurements was held in Novosibirsk on 8 to 12 September 1964, sponsored by the Institute of Automation and Electrical Measurement of the Siberian Section Academy of Sciences USSR and two other organizations. by 710 delegates for the purpose of The conference was attended exchanging ideas and coordinating efforts in developing techniques of sampling and data processing. Typical subjects were: Principles of coding biological data, use of x-ray irradiation of excited nuclei in automatic control, control and automation requirements in the chemical industry. Most of the papers given at two sections were devoted to data sampling systems. Statistical problems were stressed at one and system diagnostics at the other. S. M. Mandelshtam presented "Estimate of certain methods of statistical corre-UDC: 621.317.002.5(063) Card 1/3.

· L 9452-66 ACC NR: AP6001928 lation of an instrument with a parameter". Other leading papers were given by G. M. Dorskiy - Power spectrum analyzer for discrete low-voltage signals; V. P. Priknod'ko - Two-dimensional statistical analyzer, and A. N. Kasperovich -Elimination of the effects of periodic noise on multiple-point d-c measurements. A group of reports dealt with data sample size. Among the papers heard at the section stressing diagnostics were M. V. Savenkov - Determination of equipment aging characteristics by measuring its parameters during use; V. I Rabinovich, M. A. Rozov, and L. S. Timonen - The subject and problems of technical diagnostics; N. V. Kinsht - Optimization criteria of trouble-shooting; E. L. Baum-Functional possibilities of threshold elements in diagnostic circuits; and V. F. Motorin - Use of a mathematical logic apparatus for combination trouble-shooting of control objects. Other subjets covered were reliability, methods of electrical measurement (especially bridge methods), circuit synthesis, self-adaptive and automatic instruments, phase-shift measurements, and determination of the parameters of semiconductors and ferromagnetic materials. The section on measurement system elements heard such papers as Ya. M. Dikovskiy - Methods of magnetically actuated measurement contacts; A. S. Volkov - Design of magnetostrictive delay lines; and B. K. Grigorovskiy - Investigation of a photoelectric amplifier as a vector meter. Problems of measurement in chemical analysis, dimensional analysis, vibration, flow rate, and digital trigonometry were also treated. R. M. Masitova, V. N. Okhotskaya, and B. I. Puchkina reported on 'Some possibilities of quantitative and qualitative Card 2/3

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measurements of the characteristics of odors.' Areas in which measuring instruments need improvements are pointed out. The new journal "Avtometriya", which started publication in 1965, was discussed. Some of the conference papers are to appear in this journal; others will be published as a proceedings by "Nauka"			
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SOBOLSV, V.S.; ZERSHCHIKOVA, M.G.

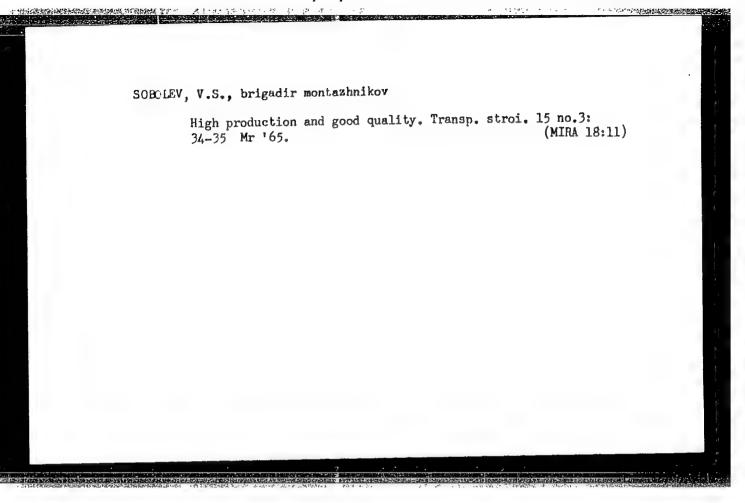
Calculating the effect of a conductive sphere on a current carrying coil. Defektoskoplia 1 no.3260-70 '65. (MIRA 18:8)

1. Institut avtomatiki i elaktrometrii Sibirskogo otdeleniya AN SSSR.

DOBRETSOV, N.L., REVERDATTO, V.V., SOBOLEV, V.S., SOBOLEV, N.V., USHAKOVA, Ye.N., KHLESTOV, V.V.

Basic characteristics of the distribution of the facies of regional metamorphism in the U.S.S.R. Geol. i geofiz. no.4: 3-18 '65. (MIRA 18:8)

l. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. Novosibirsk.



Effect of pressure on the limits of isomorphic substitutions.

1001. AN SSSR 160 no.2:435-437 Ja '65.

(MRA 12:2)

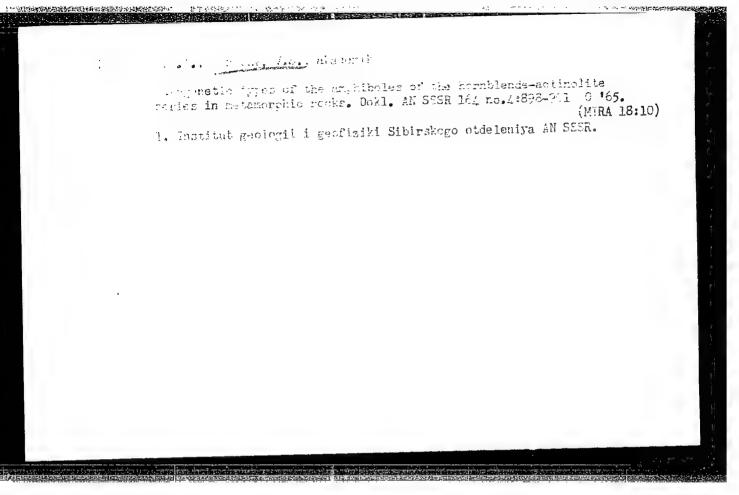
1. Institut geologii i geofiziki Sibirskoro otdeleniya AN SSSR.

KritichtNe.K., h.R.; coeffict, V.R., akrainak

Faragehetic types of chlorites. Ockl. AN SSSR 161 no.2:436-439

Mr 105.

1. Institut geologii i geologiki Sibirskogo otdeleniya AN SSSR.



"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830002-5

: 4F(a), had (c)/2HI(x)/T/2HI(k). F SOURCE CODE: UR/0410/66/000/001/0011/0016 ACC NR: AP6013008

AUTHOR: Sobolev, V.S. (Novosibirsk): Shkarlet, Yu. M. (Moscow)

34

TITLE: The theory of eddy current quality control [Paper presented at the 7th All-Union Conference on Automatic Control and Methods of Electrical Measurements held in Novosibirsk in September 1965]

SOURCE: Avtometriya, no. 1, 1966, 11-16

TOPIC TAGS: eddy current, nondestructive test, quality control, control theory

ABSTRACT: Although eddy current testing is increasingly used for nondestructive quality control, many aspects of the theory related to the utilization of superposed and screen sensors have not yet been sufficiently developed. The present article derives in detail the density distribution of eddy currents for the general case when the sensing device is located above a conductive n-layer medium. For simplicity, the superposed sensor is substituted by an equivalent current carrying loop. Theoretical results concerning the current density are presented in two diagrams. Orig. art. has: 25 formulas and 3 figures.

SUB CODE: 13 / SUBM DATE: 07Oct65 / ORIG REF: 003

Card 1/1 _

UDC: 620.179.14.538.54

Z

Investigation of rubber ... S/844/62/000/000/097/129

carboxylate rubber it is equal in both cases. Thermomechanical stability of electron-irradiated vulcanized rubbers was about 4 times as high as that of ${\rm Co}^{60}$ irradiated rubbers. Those of carboxyl containing rubbers show high strength and wear resistance (abrasion index = 115 cm²/kWh for nonfilled rubbers irradiated with 24 megarad and 200 cm²/kWh for nonfilled sulphur rubbers). Chemical relaxation curve of these rubbers shows destruction and re-grouping of salt bonds in its initial part. There are 6 figures and 2 tables.

ASSOCIATION: hill shinnoy promyshlennosti (NII of the Tire Industry); Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AS USSR)

Card 2/2

EWG(j)/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWP(j)/T/EWA(h)/EWA(1) Pr-L/Ps-L/Peb/Pu-4

ACCESSION NR: AP4049784

S/0138/64/000/011/0028/0033

AUTHOR: Kaplunov, M. Ya.; Khozak, V. K.; Kozlov, V. T.; Sobolev, V. S.; Tarasova

Z. N.: Borisov, V. A.; Karpov, V. L.; Dogadkin, B. A.

TITLE: Thermoradiation vulcanization of tires

SOURCE: Kauchuk i rezina, no. 11, 1964, 28-33

TOPIC TAGS: thermoradiation vulcanization, rubber structure, sulfur vulcanization, tire wear, thermal aging

ABSTRACT: The effectiveness of the method of thermoradiation vulcanization was investigated from the point of view of increasing the quality of the tires. The radiation unit consisted of 18 spent, heat-liberating elements from an atomic reactor. The total activity amounted to 76,000 gram-equivalents of radium. Not more than six 5.60-15 tires could be treated at one time in a cylindrical vat with a hermetically closed cover. The tires had a reduced content of vulcanizing agent; one contained a sensitizer of radiation structuringhexachlorethane. Irradiation was in an argon medium at 0.35 atm pressure. The temperature did not exceed 40C. Radiation doses amounted to 5, 9, 13, and 20 Mrad. The resulting vulcanizate had the optimum relationship of crosslinks of the type -C-C- and

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ACCESSION NR: A. 4049784

-C-S_X-C. The destructive processes as well as processes of oxidation and trans-isomerization were less than during sulfur and radiation vulcanization. The relative content of rubber in the "active" portion of the vulcanization network was high. The rubbers had 15 much higher elasticity and strength, as well as increased resistance to thermal aging and wear. Accelerated road tests showed 15-20% greater wear resistance than standard tires. "The relationship between structurization and destruction was determined by A. S. Ly*kin. N. D. Stepanov, V. Ye. Lesnichiy and L. M. Dunayev (member of NIFKhI) took part in letting up the apparatus. The design of the apparatus was developed under the quidance of G. N. Lisov (member of NIFKhI). Measurements of radioactivity and dosimetry were carried out by A. G. Vasil'yev and V. Ye. Drozdova (member of NIFKhI). The TsZL MShZ took part in manufacturing the tires." Orig. art. has: 5 figures and 4 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promy*shlennosti (Scientific Research Institute for the Tire Industry); Nauchno-issledovatel'skiy fiziko-khimicheskiy institute im. L. Ya. Karpova (Scientific Research Institute for Physics and Chemistry)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT

NO REF SOV: 005

OTHER: 001

Card

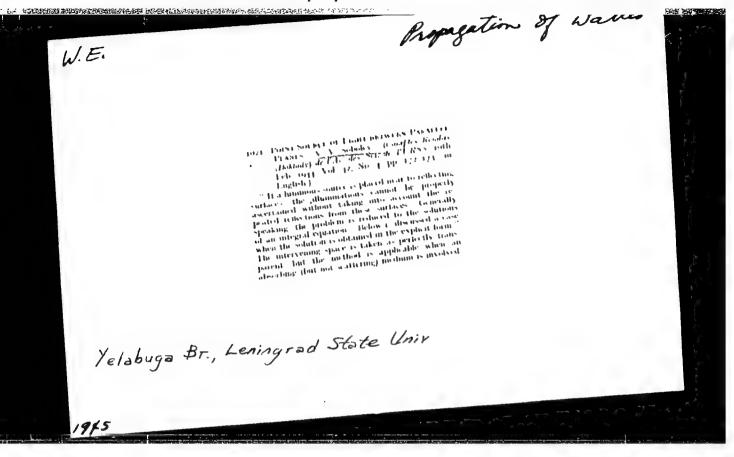
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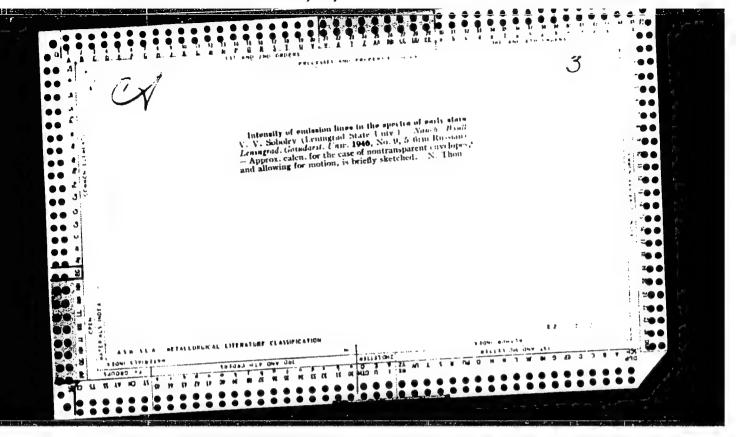
SOBOLEV, V.V.

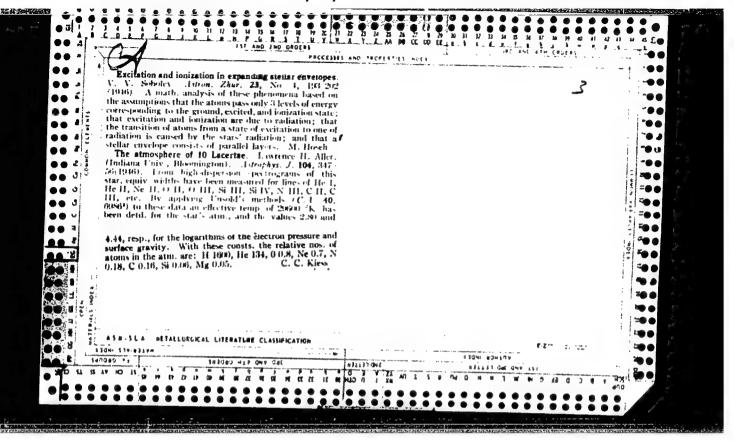
Branch Leningrad State Univ., ELABUGA, (1943)

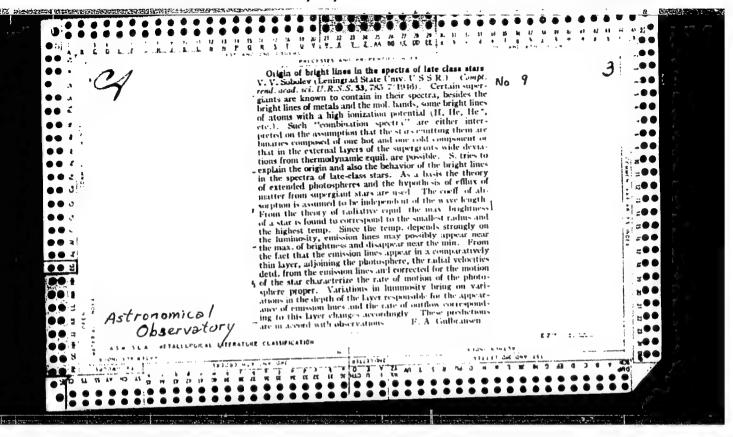
"On the intensity of radiation in the inner layers of absorbing and scattering medium."

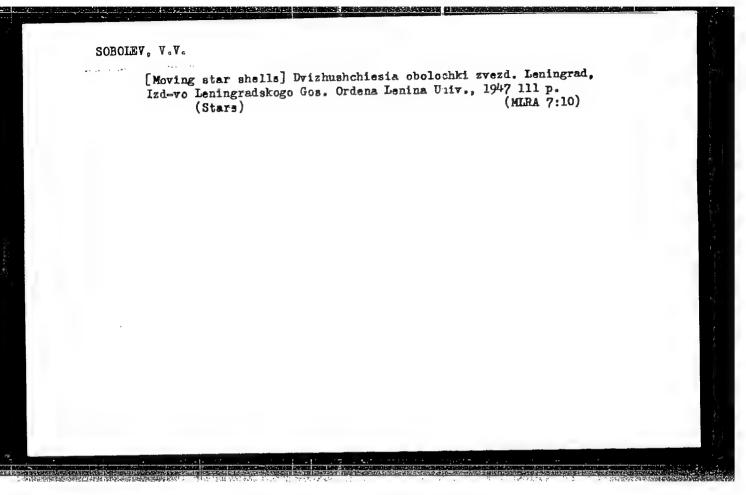
Iz. AK. Nauk SSSR, Ser. Geograf. I Geofiz., No. 1-6, 1944.

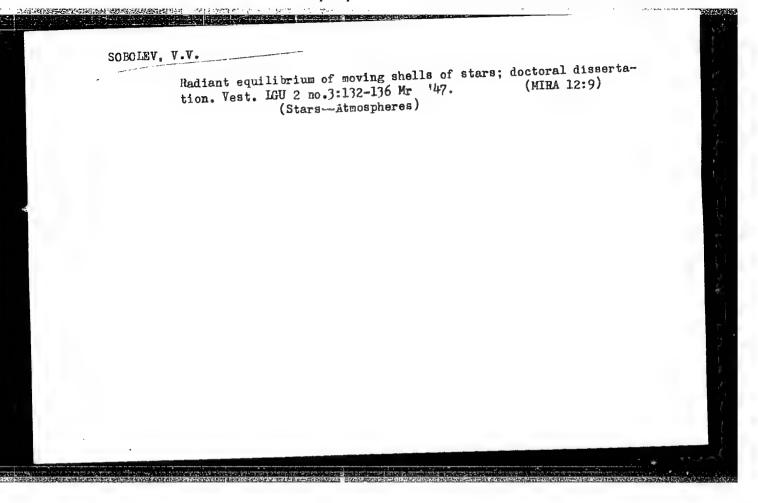






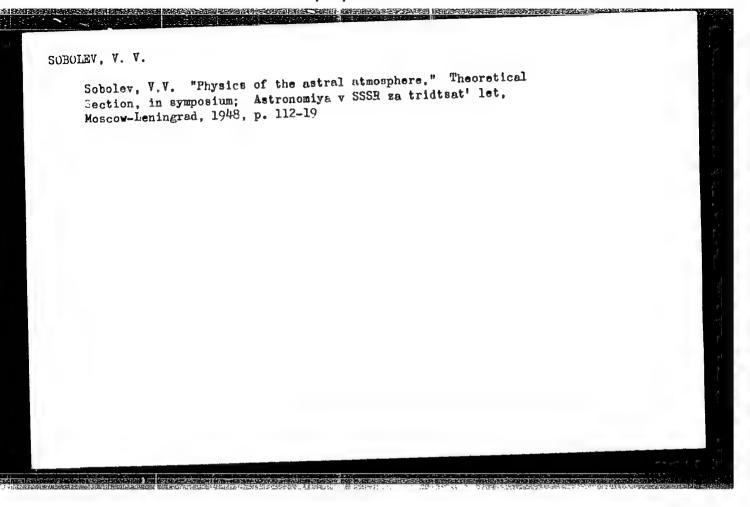






Sobolev, V. V. - "On the difference of light in the attendance of planets," Trady Tally for manch, recent (Leringr. pos. un-t), Solitelya factor, both Policektelya Fill cii, Leninerad, 19-8, p. 3-11

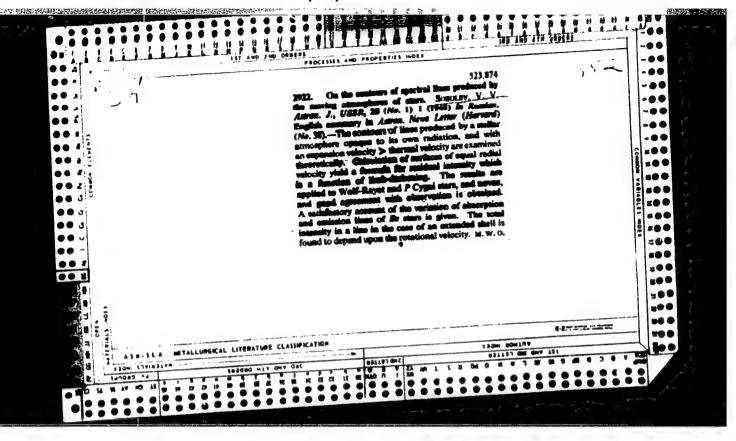
SO:U-3600, 10 July 53, (Letolic Emeral Leyen Statey, No.6, 19-9).

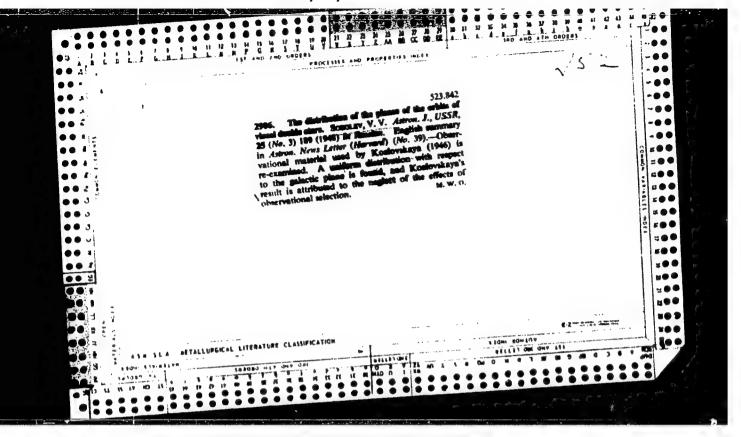


SOBOLEV, V. V.

Sobolev, V. V. - "Stars with brilliant spectral lines", Vestnik Leningr. un-ta, 1943, No. 10, p. 52-63.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).





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Aug 48

USSR/Physics Astronomy Light

"Coefficients of Brightness for a Flat Layer in a Turbid Medium," V. V. Sobolev, Astr Obs, Leningrad State U, 4 pp

"Dok Ak Nauk SSR" Vol LXI, No 5

Integral equations determine the coefficients of brightness directly, as a spherical indicatrix. Solves these equations numerically for number of cases, and compares precise values for the coefficient of brightness found in this way with values found by solving the integral equations through successive approximations.

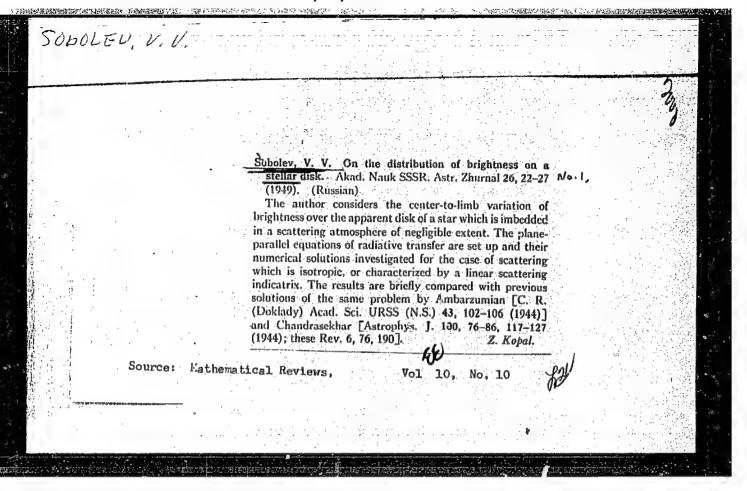
24/49T117

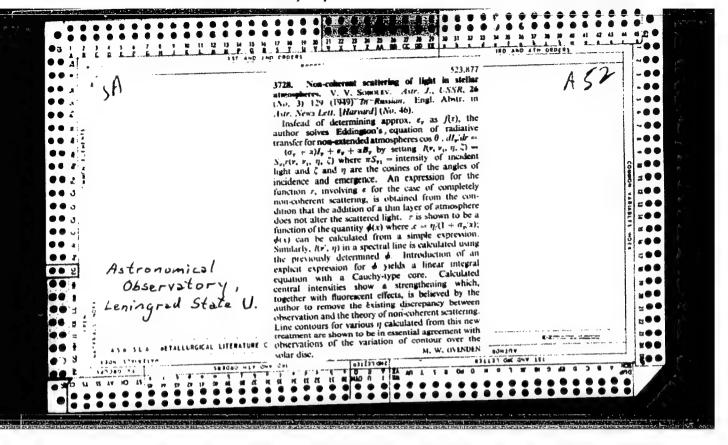
30723. SOEOLEY, V.-V.

O Polyarizatsii rasseyannogc sveta. Uchen. Zapiski (Leningr. gos. un-t. im. Whdanova), Seriya matem, nauk. vyp. 18, 1949, s. 3-16.

3070h. SOBOLFV, V. V.

O rasseyanii sveta v atmosferakh zemli i planet. Uchen. zapiski (Leningr. gos. un-t. im. Zhdanova), seriya matem. nauk, vyp. 18, 19h9, c. 53-79. -- Tibliogr: 10 nazv.





SOBOLEV, V.V.

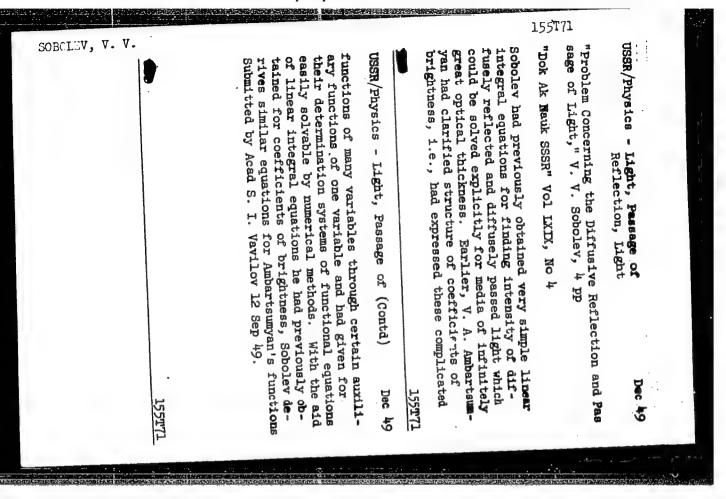
158T83

USSR/Physics - Light Reflection 21 Nov 49

"Diffusion Reflection and Passage of Light by a Plane Layer of a Turbid Medium," V. V. Sobolev, 4 pp

"Dok Ak Nauk SSSR" Vol LXIX, No 3

Describes new method for solving classical problem of diffusion reflection and passage of light by plane layer of turbid medium, previously used in the case of spherical indicatrix of dispersion but here generalized to the case of dispersion indicatrix of arbitrary form. Method involves finding linear integral equations that directly determine intensity of radiation from the medium. Submitted 12 Sep 49 by Acad S. I. Vavilov.

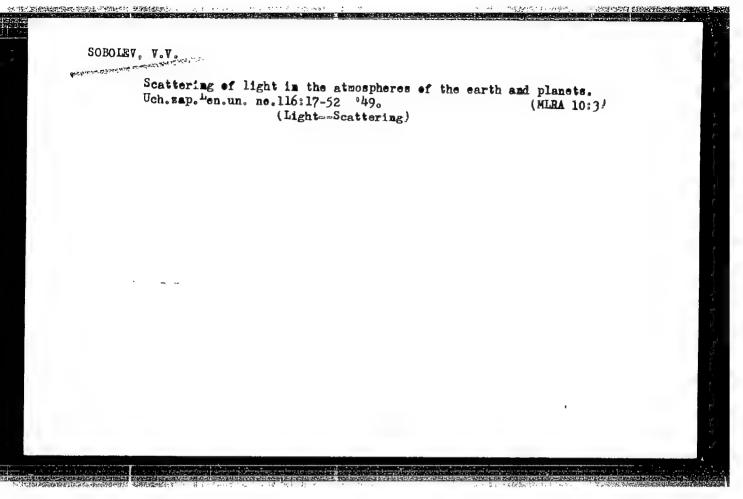


SOBOLEV, V.V.

Polarization of scattered light. Uch.zap.Len.un. no.116:3-16 '49.

(WIRA 10:3)

(Polarization (Light)) (Light-Scattering)



CIA-RDP86-00513R001651830002-5

SUBULEY, V. V.

FA 15814

USSR/ Astronomy - Stars Radiation Mar/Apr 50

"Illumination of Stellar Envelopes in the Absence of Radiative Equilibrium," V. V. Sobolev, Astr Obs, Leningrad State U, 7 pp

"Astron Zhur" Vol XXVII, No 2

Calculates number of neutral and ionized atoms per cubic centimeter for the two cases where stellar envelope is small or great in optical thickness. Applies resulting formulas to the Nova Hercules 1934.

15974

SOBOLEV, V. V.

PA 192T3

USSR/Astronomy - Astrophysics

Sep/Oct 51

"New Method in the Theory of Light Dispersion," V. V. Sobolev, Leningrad State U imeni Zhdanov

"Astron Zhur" Vol XXVIII, No 5, pp 355-362

New methods of investigation are desirable. Sobolev proposes the new concept of probability of exit of light quantum from given spot of medium in a definite direction. Introduction of this concept simplifies soln of some problems of theory of light dispersion, and its phys interpretation becomes more distinct.

19273

SOBOLEV, V.V.

TREASURE ISLAND BIBLIOGRAPHIC REFORT

AID 121 - I

PHASE I

Call No.: AF539690

BOOK

Authors: AMBARTSUMYAN, V.A., MUSTEL', E.R., SEVERNYI, A.E., SCHOLEY, V.Y.

Full Title: THEORETICAL ASTROPHICS

Transliterated Title: teoreticheskaya astrofizika

Publishing Data

Publishing House: State Publishing House of Technical-Theoretical Literature No. pp.: 635

Date: 1952

Editorial Staff

Editor: None

Tech. Ed.: None Appraiser: None

Editor-in-Chief: None

Others: Pikel'ner, S.B. wrote two paragraphs.

Text Data

Coverage: A textbook on astrophysics, mainly related to the study of the sun as a star. Covers radioactive equilibrium of the stellar photospheres,

spectra of the stars and the sun, the physics of the solar atmosphere,

nebulac, new stars (novae), interior structure of the stars and

Comments: Primarily a textbook, based on numerous sources (1927-1951). Does not

compare with the more clearly written American texts (such as L.H. Aller's

Astrophysics, 1953)

1/2

SOEOLEV, V.V.

AID 121 - I

Teoreticheskaya estrokizika

Purpose: Approved as a textbook in state universities by the Ministry of Higher

Education, U.S.S.R.

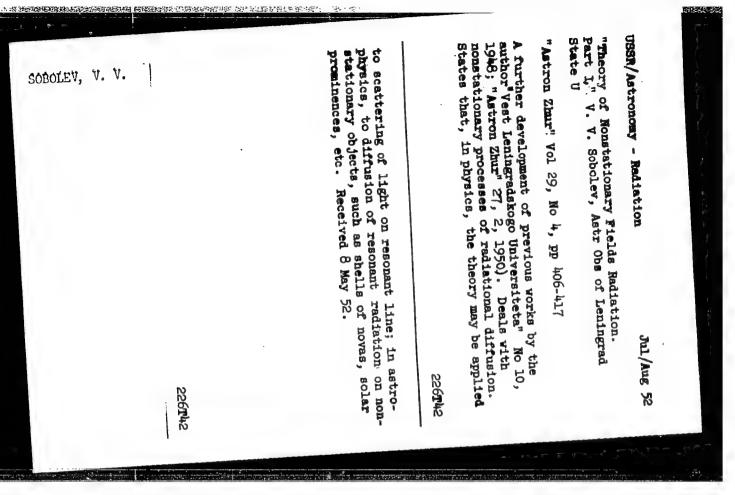
No. of Russian and Slavic References: 66, with many footnote references.

Available: AID, Library of Congress.

2/2

CIA-RDP86-00513R001651830002-5" APPROVED FOR RELEASE: 08/25/2000

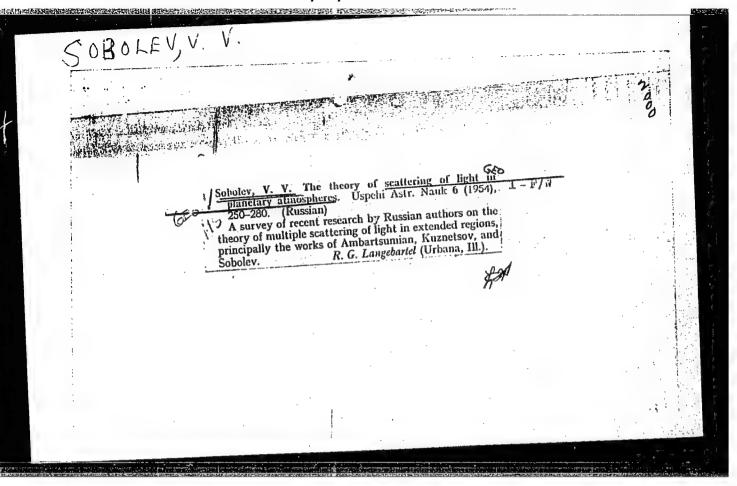
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APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830002-5"

USSR/Astronomy - Rediation Diffusion "Theory of the Monstationary Field of Radiation II," V. V. Sobolev, Astr Obs of Leningrad State U "Astron Zhur" Vol 29, No 54pp 517-525 Author started discussion of nonstationary processes of diffusion of radiation in a previous arcticle (cf. "Astron Zhur" Vol 29, No 4, 1952). Here he derives new functional eqs to det probabilities of quantum emission from the medium. Methods applied are those of V. A. Ambartsumyan Methods applied are those of V. A. Ambartsumyan 234755 in analysis of light scattering and fluctuations of intensity of the Milky Way. As example, the results are applied to the luminosity of new stars results are applied to the luminosity of new stars are applied to the luminosity of luminosity
ion ate U ate the the stars.



SOROLEY, V. Y.

AID - P-57

Subject

: USSR/Astronomy

Card

: 1/1

Author

: Sobolev, V. V.

Title

On the Theory of Brightness of Novae

Periodical

: Astron. zhur., V. XXXI, 1, 15-26, Ja - F 1954

Abstract

Granted: a film (or envelope) detaches itself from the star at the beginning of the flare; this film has a large optical thickness which diminishes with its expansion Sources of brightness are: 1) the energy in the envelope, and 2) energy from the star. Mathematical solutions of the brightness are given and theoretical deductions as to the temperature made. Theoretical and actual brightness are shown in three graphs. The article is based on the works of V. A. Ambartsumyan, Sh. G. Gordeladze, D. McLaughlin, F. Beileke, and W. Harper. Bibliography gives 7 references (4 Russian)

Institution: Leningrad University im. A. A. Zhdanov

Submitted :

October 14, 1953

CIA-RDP86-00513R001651830002-5

Sono En U.V

USSR/Optics - Spectroscopy.

K-0

Abs Jour

: Referat Zhur - Fizika, No 3, 1957, 7789

Author

Sobolev, V.V.

Inst

Title

: Leningrad State University, USSR. : Formation of Absorption Line in Incoherent Scattering of

Light.

Orig Pub

Astronom. zh., 1954, 31, No 3, 231-248

Abstract

The author considers the problem of the formation of absorption line in star spectra with incoherent scattering of light, i.e., under the assumption that the radiation is redistributed over the frequencies inside the line for the elementary active scattering. The problem of the formation of absorption lines in star spectra for a totally incoherent scattering (when the frequency of the scattered radiation is independent of the frequency of the incident radiation) was first solved by the author previously (Astronom Zh, 1949, 26, 129). The problem solved in this

Card 1/3

- 67 -

USSR/Optics - Spectroscopy.

K-6

Abs Jour

: Referat Zhur - Fizika, No 3, 1957, 7789

article is the same, but with allowance for fluorescence and by using another method. The problem consists of finding the intensity of the radiation emerging from the star at a given frequency and in a given direction I_{ν} (0, m), where the value of I_{ν} (0, m) corresponds to the solutions of the following equation: $m = \frac{1}{2} \frac{1}{2}$

Where I (z,m) is the intensity of radiation at the frequency (z,m) is the intensity of radiation at the frequency (z,m), penetrating at the depth z under the angle (z,m) with the normal, (z,m) is the scattering coefficient in the line, and (z,m) and (z,m) are the coefficients of absorption and radiation in a continuous spectrum, while (z,m) is the coefficient taking fluorescence into account. The solution is obtained by the method derived by the author (Astronom Zh, 1951, 28, 355), based on the use of the quantity (z,p), (z,p), which had the probability of

Card 2/3

- 68 -

USSR/Optics - Spectroscopy.

K-6

Abs Jour : Referat Zhur - Fizika, No 3, 1957, 7789

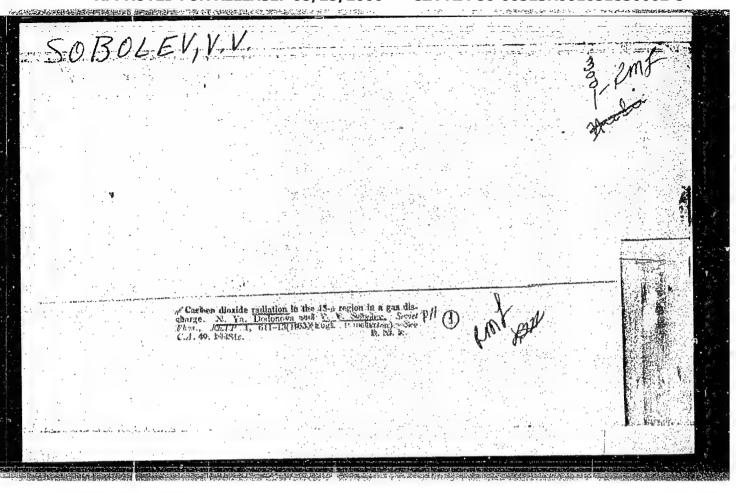
emergence from the medium of a quantum, absorbed at a depth z, at a frequency y at an angle $\cos^{-1}n$ to the normal (after, scattering in the medium). The equation derived for the quantity p(z, 2, 3) made it possible to express I (0, m) in terms of known quantities. Calculations were made of the contours of the lines on the basis of the solution obtained, and parallel calculations were also made of the contours under the assumption that the scattering is coherent. The problem of the central intensities of the lines and of the changes in the contours of the lines upon transition from the center towards the edge of the disk of the star are considered. It was found that the theory of the formation of absorption line in incoherent scattering is in better agreement with observations than that made under the assumption of coherent scattering.

Card 3/3

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Bibliography, 18 titles.

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-0051



CIA-RDP86-00513R001651830002-5

SOBOLEY V.V.

USSR/ Astronomy

Card 1/1

Pub. 127 - 7/12

Authors

Sobolev, V. V.

Title

Diffusion of radiation with redistribution of quanta according to their frequencies

Periodical

Vest. Len. un. ser. mat. fiz. khim. 5, 85-100, May 1955

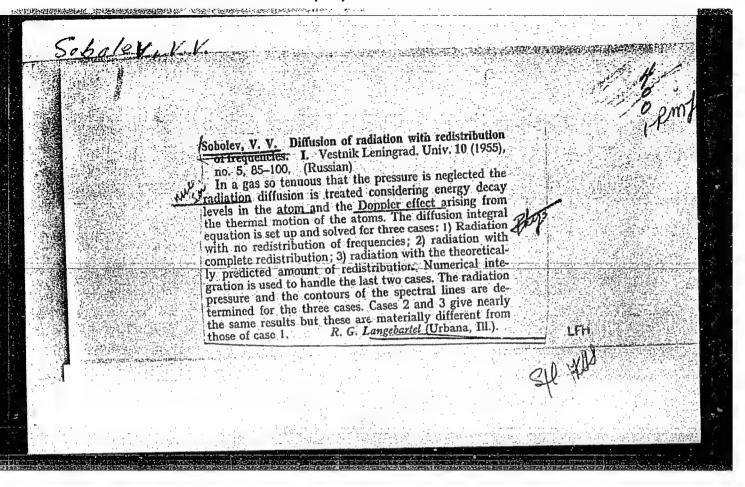
Abstract

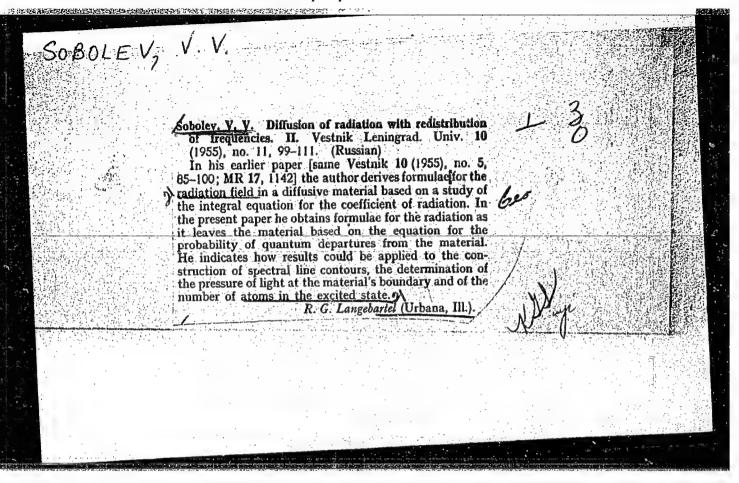
Causes of star spectral line diffusion are analyzed. A new theory concerning the diffusion of star radiation, namely, the theory of quanta redistribution according to their frequencies, is discussed. The formation of absorption lines in the star spectra and the diffusion of the resonant radiation in gaseous nebulae (La - radiation) are explained in the view of this new theory. Ten references: 1 USA, 1 Netherlands, 3 British, 5 USSR (1933-1954). Tables; graphs.

Institution:

Submitted : September 10, 1954

CIA-RDP86-00513R001651830002-5





CIA-RDP86-00513R001651830002-5

FD-2368

USSR/Physics - Emission spectrum of CO2

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Card 1/1

Pub. 146 - 33/34

Author

: Dodonova, N. Ya., and Sobolev, V. V. ne marketiketika jarah jarah jarah

Title

: Radiation of carbon dicxide in the region of 15 microns in an

electric discharge

Feriodical

: Zhur. eksp. i teor. fiz. 28, 764-766, Jun 1955

Abstract

: Investigation of the radiation of an electric discharge in ${\rm CO_2}$ in the region of 15 microns is of interest from the viewpoint of expanding our ideas concerning the process of excitation, scattering, and transmission of the oscillatory energy of molecules. The authors discuss the results of measurements conducted at pressures of gas (CO2, N2, H2) from 10 to 200 mm/Hg and discharge current strength of 280 milliamperes (the discharge tube was described earlier by senior author in DAN SSSR, 98, 1954) and with sylviteprism monochromator. They present the emission spectrum of CO2 in a discharge at 12-18 micron region, and the dependence of the intensity of the emission band of CO2 at 13.7 microns upon the pressure Co2, N2, or H2. They thank Academician A. N. Terenin, who guided this work. Seven references: e.g. A. N. Terenin and T. G. Neuymin, I2v. AN SSSR, ser. khim. 5, 1952; B. P. Kozyrev, Usp.

fiz. nauk 44, 1951.

Institution :

Leningrad State University

Submitted

January 2, 1955

Soboles, U.V.

USER/ Astronomy

Card 1/1

Pub. 8 - 13/13

Authors

Sobolev, V. V.

Title

A book review

Pariodical : Astron. zhur. 32/1 95-96, Jan-Feb 1955

Abstract

A review of a new book written by Kurganov is given. The title of the book is, "Basic Methods in Transfer Problems, Radiative Equilibrium and Neutron Diffusion." Oxford 1952.

Institution:

Submitted

SOBOLEV, Viktor Viktorovich; RAKHLIN, I.Ye., redaktor; GAVRILOV, S.S., tekhnicheskiy redaktor

[Transfer of radiant energy in stellar and planetary atmospheres]
Perenos luchistoi energii v atmosferakh zvezd i planet. Moskva,
Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 391 p. (MIRA 10:4)
(Stars--Radiation) (Planets) (Radiation)

SOBOLEV, V.V.

USSR/Physical Chemistry - Molecule. Chemical Bond

R.4

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 3469

Author

: Dodonova N. Ya., Sobolev V.V.

Inst

: Leningrad University : Infrared Radiation of Nitrogen Oxide in Electric Dis-

Title

chaves .

Orig Pub

: Vestn. Leningr. un-ta, 1936, No 10, 3-5

Abstract

: Study of radiation spectrum of NO in electrical discharge. In the spectrum maxima were observed at 3, 4,4 and 4.8A, apparently due not to No but higher oxides of nitrogen formed in the discharge, Addition of nitrogen into the discharge tube does not affect intensity of radiation of the 4.8 M band. This fact is in conflict with the assumption of A.N. Terenin and G.G. Neuymin (Izv. AN SSSR, Ser. khim. 1942, 5, 246) of an enhanced radiation of CO and CC2 on addition of N2, as a result of intermolecular energy transmission.

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- 6 -

DOBOLEV, V. V.

USSR/Physical Chemistry. Crystals.

B-5

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14520

Author : E. F. Gross, V. V. Sobolev

Inst.

Title ; Absorption Spectra and Excitons Emissions in a CdSe

Crystal

Orig Pub: Zh. tekhn. fiziki, 1956, 26, No 7, 1622-1624

Abstract: In the absorption spectrum of monocrystallic plates of

CdSe, 10-30 microns thick, at 4.2°K, one observes around the area of main absorption in the region of 6653-6800 A many clearly defined lines and bands which are ascribed to the excitation of the exciton. As in the case of CdS, strong lines and bands are located on the short wave side of the region of main absorption while the weak lines and bands are on the long wave side. As in the case of CdS, in the CdSe luminescence spectrum at 77.3°K, one observes a group of equidistant (AD=182cm-1) rather narrow bands, analogous to the "green" luminescence

Card 1/2

_USSR/Physical Chemistry. Crystals.

B-5

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14520

Abstract:

bands of CdS and a group of lines analogous to the "violet" CdS luminescence. Wave lengths of the centers of the two short wave emission bands of λ 6811 and 6837 A at 77.30K, brought to the temp. of 4.20K, λ 6740 and 6766 A, coincide with two strong lines of agsorption, λ 6733 and 6753 A. These bands are considered due to emission of the exciton during its annihilation. As in the case of CdS, lines and bands of CdSe emission and absorption are differently polarized.

Card 2/2